

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

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PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 06 JULY 2004 (06.07.2004)

Applicant's or agent's file reference PCT204-0037		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/KR2004/000560	International filing date (day/month/year) 16 MARCH 2004 (16.03.2004)	Priority date(day/month/year) 17 MARCH 2003 (17.03.2003)	
International Patent Classification (IPC) or both national classification and IPC IPC7 H01L 21/66			
Applicant PHICOM CORPORATION et al			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/000560

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

a sequence listing
 table(s) related to the sequence listing

b. format of material

in written format
 in computer readable form

c. time of filing/furnishing

contained in the international application as filed
 filed together with the international application in computer readable form
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/000560

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	4-5,8-10	YES
	Claims	1-3,6-7	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims	NONE	NO

2. Citations and explanations :

The invention relates to a probe contactor with a bent portion in the middle section of the probe contactor and a method of making the same.

Following documents have been cited in the International Search Report:

D1: KR 89-4245 Y1 (In-Chul Yoon) 26 June 1989

D2: JP 60-247487 A (NIPPON DENKI KK) 07 December 1985

D3: US5811751 A (Tony P. Leong, et al.) 22 September 1998

1. D1 discloses an automatic bonding apparatus comprising a table base, a table, wafer holder, bonding arms, a motor, and controller.

2. D2 discloses a wire bonding apparatus with a laser source.

3. D3 disclose a probe station comprising a base machine, a chuck, a probe platen, a microscope, and a single laser.

The invention claimed in claims 1-10 is considered to be novel and industrial applicable.

Claims 1-3 and 6-7 are considered to be lack of inventive step over the admitted prior arts of combination of D1-D3. However, the documents D1-D3 does not suggest the special feature of a controllable fixed part for a probe and a bonding method. Claims 4-5 and 8-10 are considered to have inventive steps.